BRUHAT BANGALORE MAHANAGARA PALIKE

MEASUREMENT SHEET

RA 1ST AND FINAL BILL

Name of work: Asphalting to Roads and Improvements to Drains at Manjunatha Layout 1st, 2nd and 3rd Cross Roads in Ward No. 06, Byatarayanapura Sub Division

Estimated Cost : Rs. 30.00 Lakhs

Job Code: 006-18-000030

Head of Account : P-3316 Special Development Works

Name of Agency: Sri M.R Krishna Naik (Shri Lakshmi Infra India PVT LTD), Shimogga.

Work order No: EE/H/AE/WO/206/2018-19 Dated: 04.01.2019.

Measurements Recarded on :

Sl No.	Description	No.	L	B1	B2	AV. B	D	Qty	Rate / Unit	Amount
1	Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications. i) Lime /Cement Concrete. I. By Manual Means :B. Cement Concrete Grade M-15 & M-20. etc complete as per specifications.								Sqm	
	C 1 for Culverts old Deck	1	4.90			1.60	0.25	1.96		
	C 2	1	7.20			1.60	0.25	2.88		
	C 3	1	6.80			1.60	0.25	2.72		
							Total Qty =	7.56		
							Qty Limited to =	7.56	500.00	3780.00
2	Removing and resetting of footpath slab. etc complete as per specifications.								Sqm	
	W/S Thanisandra Main Road upto SWD	381	1.20			0.60		274.32		
		754	1.20			0.60		542.88		
							Total Qty =	817.20		
							Qty Limited to =	817.20	180.00	147096.00
3	Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications.								Cum	
	Desilting of Drain Heap Measurement	1	9.50	1.20	1.30	1.25	0.40	4.75		
		1	8.90	1.00	1.20	1.10	0.50	4.90		
		1	10.80	0.90	1.10	1.00	0.40	4.32		
		1	8.80	1.00	1.20	1.10	0.60	5.81		
		1	11.00	1.00	1.20	1.10	0.40	4.84		
		1	8.00	1.30	1.50	1.40	0.60	6.72		
		1	12.80	1.20	1.40	1.30	0.60	9.98		
		1	8.00	1.30	1.50	1.40	0.40	4.48		
		1	11.50	1.20	1.30	1.25	0.30	4.31		
		1	10.00	1.20	1.30	1.25	0.35	4.38		
		1	8.60	1.00	1.10	1.05	0.30	2.71		
		1	10.00	1.30	1.50	1.40	0.60	8.40		
		1	9.50	1.20	1.30	1.25	0.60	7.13		
		1	11.00	1.00	1.20	1.10	0.40	4.84		
		1	9.80	1.30	1.50	1.40	0.50	6.86		
		1	8.90	1.00	1.20	1.10	0.50	4.90		
		1	8.90	1.00	1.20	1.10	0.40	3.92		
		1	7.50	0.90	1.00	0.95	0.40	2.85		
		1	10.00	1.30	1.50	1.40	0.60	8.40		
		1	8.40	1.20	1.30	1.25	0.60	6.30		
		1	9.70	1.30	1.50	1.40	0.30	4.07		
		1	7.50	1.20	1.30	1.25	0.50	4.69		
		1	12.50	1.00	1.10	1.05	0.40	5.25		

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
Assistant Engineer

ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
Assistant Executive Engineer

Sl No.	Description	No.	L	B1	B2	AV. B	D	Qty	Rate / Unit	Amount
		1	13.20	0.90	1.10	1.00	0.30	3.96		
		1	7.50	1.20	1.30	1.25	0.50	4.69		
		1	12.50	1.00	1.10	1.05	0.40	5.25		
		1	13.20	0.90	1.10	1.00	0.30	3.96		
		1	10.90	1.00	1.20	1.10	0.60	7.19		
		1	8.60	1.00	1.20	1.10	0.40	3.78		
		1	3.80	1.00	1.10	1.05	0.50	2.00		
		1	8.80	1.00	1.20	1.10	0.30	2.90		
		1	9.80	1.30	1.50	1.40	0.50	6.86		
		1	8.90	1.00	1.20	1.10	0.30	2.94		
		1	9.10	0.90	1.10	1.00	0.60	5.46		
		1	12.50	1.00	1.10	1.05	0.50	6.56		
		1	10.80	0.90	1.10	1.00	0.60	6.48		
		1	8.80	1.00	1.20	1.10	0.60	5.81		
		1	11.00	1.00	1.20	1.10	0.40	4.84		
		1	9.80	1.30	1.50	1.40	0.50	6.86		
		1	8.90	1.00	1.20	1.10	0.40	3.92		
		1	13.20	0.90	1.10	1.00	0.40	5.28		
		1	9.10	0.90	1.10	1.00	0.60	5.46		
		1	11.50	1.20	1.30	1.25	0.30	4.31		
		1	10.00	1.20	1.30	1.25	0.35	4.38		
		1	8.60	1.00	1.10	1.05	0.30	2.71		
		1	8.90	1.00	1.20	1.10	0.50	4.90		
		1	10.50	0.90	1.00	0.95	0.30	2.99		
		1	8.40	1.20	1.30	1.25	0.60	6.30		
		1	9.70	1.30	1.50	1.40	0.30	4.07		
		1	7.50	1.20	1.30	1.25	0.50	4.69		
		1	12.50	1.00	1.10	1.05	0.40	5.25		
		1	8.40	1.20	1.30	1.25	0.60	6.30		
		1	9.70	1.30	1.50	1.40	0.60	8.15		
		1	7.50	1.20	1.30	1.25	0.50	4.69		
		1	12.50	1.00	1.10	1.05	0.40	5.25		
		1	13.20	0.90	1.10	1.00	0.30	3.96		
		1	10.90	1.00	1.20	1.10	0.30	3.60		
		1	8.60	1.00	1.10	1.05	0.40	3.61		
		1	3.80	1.00	1.10	1.05	0.50	2.00		
		1	10.00	1.20	1.30	1.25	0.40	5.00		
		1	8.90	1.00	1.20	1.10	0.50	4.90		
		1	10.80	0.90	1.10	1.00	0.40	4.32		
		1	8.80	1.00	1.20	1.10	0.60	5.81		
		1	11.00	1.10	1.20	1.15	0.40	5.06		
		1	9.80	1.30	1.50	1.40	0.50	6.86		
		1	8.90	1.00	1.20	1.10	0.40	3.92		
		1	13.20	0.90	1.10	1.00	0.40	5.28		
		1	10.90	1.00	1.20	1.10	0.40	4.80		
		1	9.80	1.30	1.50	1.40	0.50	6.86		
		1	8.90	1.00	1.20	1.10	0.30	2.94		
		1	9.10	0.90	1.10	1.00	0.60	5.46		
		1	12.50	1.00	1.10	1.05	0.50	6.56		
		1	7.10	1.20	1.30	1.25	0.40	3.55		
		1	8.90	1.00	1.20	1.10	0.50	4.90		
		1	8.60	1.00	1.10	1.05	0.30	2.71		
		1	9.50	1.20	1.30	1.25	0.60	7.13		
								382.17		
	Deduct 15s% for Shrinkage							**-57.33**		
	Total Qty A							**324.84**		
	Thanisandra Main Road from Ring Road	1	30.00			1.10	1.00	33.00		
		1	30.00			1.10	1.10	36.30		
		1	30.00			1.10	1.10	36.30		
		1	1.00			1.10	1.10	1.21		
		1	30.00			1.10	1.00	33.00		
		1	2.00			1.10	1.10	2.42		
		1	13.50			1.10	1.10	16.34		
		1	30.00			1.10	1.10	36.30		

Assistant Engineer ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

Assistant Executive Engineer ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-೨೫

Sl No.	Description	No.	L	B1	B2	AV. B	D	Qty	Rate / Unit	Amount
		1	30.00			1.10	1.10	36.30		
		1	14.30			1.10	1.00	15.73		
		1	30.00			1.10	1.10	36.30		
		1	25.70			1.10	1.00	28.27		
		1	4.90			1.60	1.25	9.80		
		1	7.20			1.60	1.25	14.40		
		1	6.80			1.60	1.25	13.60		
	Total Qty B							**349.27**		
							Total Qty A + B =	**674.11**		
							Total Qty =	**655.90**	200.00	**131180.00**
4	Providing and laying in position **plain cement concrete of mix 1:3:6** with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, **in foundation** including cost of all materials, labour, HOM of machinery, curing complete as per specifications.								Cum	
	Thanisandra Main Road from Ring Road	1	30.00			1.10	0.15	4.95		
		1	30.00			1.10	0.15	4.95		
		1	30.00			1.10	0.15	4.95		
		1	1.00			1.10	0.15	0.17		
		1	30.00			1.10	0.15	4.95		
		1	2.00			1.10	0.15	0.33		
		1	13.50			1.10	0.15	2.23		
		1	30.00			1.10	0.15	4.95		
		1	30.00			1.10	0.15	4.95		
		1	14.30			1.10	0.15	2.36		
		1	30.00			1.10	0.15	4.95		
		1	25.70			1.10	0.15	4.24		
		1	4.90			1.60	0.15	1.18		
		1	7.20			1.60	0.15	1.73		
		1	6.80			1.60	0.15	1.63		
							Total Qty =	**48.51**		
							Qty Limited to =	**48.20**	5850.00	**281970.00**
5	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for foundations, footings, bases of columns for mass concrete including cost of all materials, labour complete as per specificaitons								Sqm	
	Thanisandra Main Road from Ring Road	2	30.00			0.15		9.00		
		2	30.00			0.15		9.00		
		2	30.00			0.15		9.00		
		2	1.00			0.15		0.30		
		2	30.00			0.15		9.00		
		2	2.00			0.15		0.60		
		2	13.50			0.15		4.05		
		2	30.00			0.15		9.00		
		2	30.00			0.15		9.00		
		2	14.30			0.15		4.29		
		2	30.00			0.15		9.00		
		2	25.70			0.15		7.71		
		2	4.90			0.15		1.47		
		2	7.20			0.15		2.16		
		2	6.80			0.15		2.04		
							Total Qty =	**85.62**		
							Qty Limited to =	**81.90**	270.00	**22113.00**
6	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, including attached pilasters, buttresses, plinth cills and string courses cost of all materials, labour complete as per specifications								Sqm	
	Thanisandra Main Road from Ring Road	2x2	30.00				0.80	96.00		
		2x2	30.00				0.80	96.00		
		2x2	30.00				0.80	96.00		
		2x2	1.00				0.80	3.20		
		2x2	30.00				0.80	96.00		

Assistant Engineer
ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

17/11/2019
Assistant Executive Engineer
ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

Sl No.	Description	No.	L	B1	B2	AV. B	D	Qty	Rate / Unit	Amount
		2x2	2.00				0.80	6.40		
		2x2	13.50				0.80	43.20		
		2x2	30.00				0.80	96.00		
		2x2	30.00				0.80	96.00		
		2x2	14.30				0.80	45.76		
		2x2	30.00				0.80	96.00		
		2x2	25.70				0.80	82.24		
		2x2	4.90				0.90	17.64		
		2x2	7.20				0.90	25.92		
		2x2	6.80				0.90	24.48		
							Total Qty =	**920.84**		
							Qty Limited to =	**882.00**	350.00	**308700.00**
7	Providing and laying cement concrete using 20 mm and down size granite coarse aggregates and fine aggregates of ready mixed concrete (RMC) M 20 for R.C.C works laid in 15 cms thick layers and well compacted vibrating, curing, for raft foundation column footing , main and secondary beams with all lead and lifts etc., complete (exclusive of cost of steel and fabrication charges.) etc complete as per specifications.								Cum	
	Bottom Concrete									
	Thanisandra Main Road from Ring Road	1	30.00			0.90	0.15	4.05		
		1	30.00			0.90	0.15	4.05		
		1	30.00			0.90	0.15	4.05		
		1	1.00			0.90	0.15	0.14		
		1	30.00			0.90	0.15	4.05		
		1	2.00			0.90	0.15	0.27		
		1	13.50			0.90	0.15	1.82		
		1	30.00			0.90	0.15	4.05		
		1	30.00			0.90	0.15	4.05		
		1	14.30			0.90	0.15	1.93		
		1	30.00			0.90	0.15	4.05		
		1	25.70			0.90	0.15	3.47		
		1	4.90			1.50	0.15	1.10		
		1	7.20			1.50	0.15	1.62		
		1	6.80			1.50	0.15	1.53		
	Side Wall									
	Thanisandra Main Road from Ring Road	2	30.00			0.15	0.80	7.20		
		2	30.00			0.15	0.80	7.20		
		2	30.00			0.15	0.80	7.20		
		2	1.00			0.15	0.80	0.24		
		2	30.00			0.15	0.80	7.20		
		2	2.00			0.15	0.80	0.48		
		2	13.50			0.15	0.80	3.24		
		2	30.00			0.15	0.80	7.20		
		2	30.00			0.15	0.80	7.20		
		2	14.30			0.15	0.80	3.43		
		2	30.00			0.15	0.80	7.20		
		2	25.70			0.15	0.80	6.17		
		2	4.90			0.25	0.90	2.21		
		2	7.20			0.25	0.90	3.24		
		2	6.80			0.25	0.90	3.06		
							Total Qty =	**112.70**		
							Total Qty =	**112.67**	6700.00	**754889.00**
8	Providing **T.M.T steel reinforcement for R.C.C work** including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. **TMT bars Fe 500**								Tonne	
		Nos	L			M	Kg/m	Kgs		
	10 mm	455	2.30			1046.50	0.62	648.83		
	8 mm	11	91.00			1001.00	0.39	390.39		
	10 mm	160	2.45			392.00	0.62	243.04		
	8 mm	11	32.00			352.00	0.39	137.28		

Assistant Engineer
ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

17/11/2

Assistant Executive Engineer
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

Sl No.	Description	No.	L	B1	B2	AV. B	D	Qty	Rate / Unit	Amount
	10 mm	68	2.45			166.60	0.62	103.29		
	8 mm	11	13.50			148.50	0.39	57.92		
	10 mm	372	2.45			911.40	0.62	565.07		
	8 mm	11	74.30			817.30	0.39	318.75		
	10 mm	279	2.45			683.55	0.62	423.80		
	8 mm	11	55.70			612.70	0.39	238.95		
	10 mm	33	2.45			80.85	0.62	50.13		
	12 mm	21	4.90			102.90	0.89	91.58		
	10 mm	48	2.45			117.60	0.62	72.91		
	12 mm	21	7.20			151.20	0.89	134.57		
	10 mm	45	2.45			110.25	0.62	68.36		
	12 mm	21	6.80			142.80	0.89	127.09		
								3671.95		
							Total Qty =	3.67		
							Qty Limited Tender Qty =	3.40	75000.00	255000.00
9	Providing and fixing **RCC precast cover slab of 250mm thick** of drain in cment concrete M20 using graded jelly 20 mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides, transportation, loading unloading, etc.,complete as per the direction of engineer in charge								Sqm	
	C 1	6	1.50			0.60		5.40		
	C2	10	1.50			0.60		9.00		
	C3	9	1.50			0.60		8.10		
		40	1.50			0.60		36.00		
							Total Qty =	58.50	5500.00	321750.00
10	Providing and fixing **RCC precast cover slab of 100mm thick** of drain in cment concrete M20 using graded jelly 20 mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides, transportation, loading unloading, etc.,complete as per the direction of engineer in charge								Sqm	
	Thanisandra Main Road from Ring Road	1	30.00			0.90		27.00		
		1	24.00			0.90		21.60		
		1	10.60			1.20		12.72		
		1	26.40			0.90		23.76		
		1	30.00			0.90		27.00		
		1	2.00			0.90		1.80		
		1	13.50			0.90		12.15		
		1	30.00			0.90		27.00		
		1	30.00			0.90		27.00		
		1	14.30			0.90		12.87		
		1	30.00			1.20		36.00		
		1	25.70			1.20		30.84		
		130	1.20			0.60		93.60		
							Total Qty =	353.34	1900.00	671346.00
									Total	2897824.00

Rupees Twenty Eight Lakh(s) Ninety Seven Thousand Eight Hundred Twenty Four Only

Assistant Engineer
Ward No. 06
22/2/19
ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

Assistant Executive Engineer
Byatarayanapura Sub Division
22/2/2019
ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

BRUHAT BANGALORE MAHANAGARA PALIKE

MEASUREMENT SHEET

RA 1ST AND FINAL BILL

Name of work: Providing Cement Concrete Roads and Drains at Bharathnagara High Tension Road both side Cross Roads, from Milk Dairy to Tajraj Compound in Ward No. 06, Byatarayanapura Sub Division.

Estimated Cost : Rs. 40.00 Lakhs

Job Code: 006-18-000036

Head of Account : P-3316 Special Development Works

Name of Agency: Sri M.R Krishna Naik (Shri Lakshmi Infra India PVT LTD), Shimogga.

Work order No: EE/H/AE/WO/206/2018-19 Dated: 04.01.2019.

Measurements Recarded on :

Sl No.	Description	No.	L	B1	B2	AV. B	D	Qty	Rate / Unit	Amount
1	Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications.								Cum	
	Desilting of Drain Heap Measurement									
	High Tension Road									
		1	10.00	1.30	1.50	1.40	0.60	8.40		
		1	12.00	1.00	1.20	1.10	0.40	5.28		
		1	8.50	1.20	1.30	1.25	0.50	5.31		
		1	7.60	1.20	1.30	1.25	0.50	4.75		
		1	9.00	1.30	1.50	1.40	0.45	5.67		
		1	9.10	0.90	1.10	1.00	0.40	3.64		
		1	12.00	1.20	1.40	1.30	0.50	7.80		
		1	9.10	0.90	1.10	1.00	0.60	5.46		
		1	12.50	1.00	1.10	1.05	0.50	6.56		
		1	10.00	1.20	1.30	1.25	0.40	5.00		
		1	8.90	1.00	1.20	1.10	0.50	4.90		
		1	10.80	0.90	1.10	1.00	0.40	4.32		
		1	8.80	1.00	1.20	1.10	0.30	2.90		
		1	11.00	1.00	1.20	1.10	0.40	4.84		
		1	9.80	1.30	1.50	1.40	0.50	6.86		
		1	8.90	1.00	1.20	1.10	0.40	3.92		
		1	13.20	0.90	1.10	1.00	0.40	5.28		
		1	10.90	1.00	1.20	1.10	0.30	3.60		
		1	8.60	1.00	1.20	1.10	0.40	3.78		
		1	13.00	1.20	1.30	1.25	0.60	9.75		
		1	7.80	1.00	1.10	1.05	0.50	4.10		
		1	10.00	1.30	1.50	1.40	0.30	4.20		
		1	7.50	1.00	1.10	1.05	0.60	4.73		
		1	8.00	1.20	1.30	1.25	0.60	6.00		
		1	10.00	1.20	1.30	1.25	0.40	5.00		
		1	8.90	1.00	1.20	1.10	0.50	4.90		
		1	10.80	0.90	1.10	1.00	0.40	4.32		
		1	8.80	1.00	1.20	1.10	0.30	2.90		
		1	11.00	1.00	1.20	1.10	0.40	4.84		
		1	9.80	1.30	1.50	1.40	0.50	6.86		
		1	8.90	1.00	1.20	1.10	0.40	3.92		
		1	7.50	0.90	1.00	0.95	0.45	3.21		
		1	10.00	1.30	1.50	1.40	0.60	8.40		
		1	13.00	1.20	1.30	1.25	0.60	9.75		
		1	10.50	0.90	1.00	0.95	0.60	5.99		
		1	7.80	1.00	1.10	1.05	0.50	4.10		
		11	12.80	1.20	1.40	1.30	0.30	4.99		
		1	8.00	1.30	1.50	1.40	0.60	6.72		

ಸಹಾಯಕ ಅಭಿಯಂತರರು
Assistant Engineer
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
Assistant Executive Engineer
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ P.T.O

Sl No.	Description	No.	L	B1	B2	AV. B	D	Qty	Rate / Unit	Amount
		1	10.00	1.20	1.30	1.25	0.40	5.00		
		1	8.90	1.00	1.20	1.10	0.50	4.90		
		1	10.50	0.90	1.00	0.95	0.30	2.99		
		1	13.00	1.20	1.30	1.25	0.60	9.75		
		1	8.60	1.00	1.10	1.05	0.50	4.52		
		1	10.00	1.30	1.50	1.40	0.60	8.40		
		1	12.00	1.20	1.40	1.30	0.50	7.80		
		1	9.10	0.90	1.10	1.00	0.40	3.64		
		1	11.50	1.20	1.30	1.25	0.30	4.31		
		1	10.00	1.20	1.30	1.25	0.40	5.00		
		1	7.50	1.20	1.40	1.30	0.50	4.88		
		1	9.00	1.30	1.50	1.40	0.45	5.67		
		1	11.00	1.20	1.40	1.30	0.50	7.15		
								285.55		
	Deduct 15s% for Shrinkage							**-42.83**		
	Total Qty A							**242.72**		
	Culvert C1	1	5.00			2.00	1.20	12.00		
	Culvert C2	1	4.50			2.00	1.20	10.80		
	C3	1	5.50			2.00	1.20	13.20		
	C4	1	5.60			2.00	1.20	13.44		
	C5	1	6.00			2.00	1.20	14.40		
	C6	1	5.00			2.00	1.20	12.00		
	C7	1	6.00			2.00	1.20	14.40		
	C8	1	5.50			2.00	1.20	13.20		
	C9	1	4.20			2.00	1.20	10.08		
	Total Qty B							**113.52**		
							Total Qty A + B =	**356.24**		
		Total						**325.95**	200.00	**65190.00**
2	Removing and refixing stone slabs of drains and pointing in CM (1:3)complete as per specifications.								Sqm	
	N/S High Tension Road	1	30.00			1.50		45.00		
		1	2.30			1.50		3.45		
		1	23.80			1.50		35.70		
		1	26.10			1.50		39.15		
		1	30.00			1.50		45.00		
		1	28.70			1.50		43.05		
		4	30.00			1.50		180.00		
		1	7.10			1.50		10.65		
	S/S	1	25.20			1.50		37.80		
		1	24.70			1.50		37.05		
		1	25.10			1.50		37.65		
		1	24.20			1.50		36.30		
		1	24.30			1.50		36.45		
		1	30.00			1.50		45.00		
		1	22.20			1.50		33.30		
		1	30.00			1.50		45.00		
		1	7.00			1.50		10.50		
							Total Qty =	**721.05**		
							Qty Limited to =	**697.08**	100.00	**69708.00**
3	Providing granite slabs of selected quality roughly dressed havinf a size of 7.5 cms thick and fixed in cement mortar (1:6) including fixing curing ete., complete as per specifications.								Sqm	
	N/S High Tension Road	1	7.90			1.50		11.85		
		1	6.00			1.50		9.00		
		1	6.20			1.50		9.30		
		1	16.00			1.50		24.00		
		1	30.00			1.50		45.00		
		1	1.00			1.50		1.50		
		1	6.20			1.50		9.30		
	S/S	1	5.90			1.50		8.85		
		1	6.80			1.50		10.20		
		1	5.80			1.50		8.70		
		1	6.30			1.50		9.45		

Assistant Engineer ಸಹಾಯಕ ಅಭಿಯಂತರರು ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

Assistant Executive Engineer ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-26

P.T.O

Sl No.	Description	No.	L	B1	B2	AV. B	D	Qty	Rate / Unit	Amount
		1	12.80			1.50		19.20		
		1	8.90			1.50		13.35		
							Total Qty =	179.70		
							Qty Limited to =	174.27	700.00	121989.00
4	Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications								Cum	
	N/S High Tension Road	2	30.00			0.45	0.10	2.70		
		2	2.30			0.45	0.10	0.21		
		2	23.80			0.45	0.10	2.14		
		2	26.10			0.45	0.10	2.35		
		2	30.00			0.45	0.10	2.70		
		2	28.70			0.45	0.10	2.58		
		2x4	30.00			0.45	0.10	10.80		
		2	7.10			0.45	0.10	0.64		
	S/S	2	25.20			0.45	0.10	2.27		
		2	24.70			0.45	0.10	2.22		
		2	25.10			0.45	0.10	2.26		
		2	24.20			0.45	0.10	2.18		
		2	24.30			0.45	0.10	2.19		
		2	30.00			0.45	0.10	2.70		
		2	22.20			0.45	0.10	2.00		
		2	30.00			0.45	0.10	2.70		
		2	7.00			0.45	0.10	0.63		
	Culvert C1	1	5.00			2.00	0.15	1.50		
	Culvert C2	1	4.50			2.00	0.15	1.35		
	C3	1	5.50			2.00	0.15	1.65		
	C4	1	5.60			2.00	0.15	1.68		
	C5	1	6.00			2.00	0.15	1.80		
	C6	1	5.00			2.00	0.15	1.50		
	C7	1	6.00			2.00	0.15	1.80		
	C8	1	5.50			2.00	0.15	1.65		
	C9	1	4.20			2.00	0.15	1.26		
							Total Qty =	57.45	5850.00	336100.00
5	Providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar 1:6, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications								Cum	
	Road Side Wall									
	N/S High Tension Road	1	30.00			0.45	0.45	6.08		
		1	2.30			0.45	0.45	0.47		
		1	23.80			0.45	0.60	6.43		
		1	26.10			0.45	0.60	7.05		
		1	30.00			0.45	0.60	8.10		
		1	28.70			0.45	0.60	7.75		
		4	30.00			0.45	0.45	24.30		
		1	7.10			0.45	0.45	1.44		
	S/S	1	25.20			0.45	0.60	6.80		
		1	24.70			0.45	0.45	5.00		
		1	25.10			0.45	0.60	6.78		
		1	24.20			0.45	0.45	4.90		
		1	24.30			0.45	0.45	4.92		
		1	30.00			0.45	0.60	8.10		
		1	22.20			0.45	0.60	5.99		
		1	30.00			0.45	0.45	6.08		
		1	7.00			0.45	0.45	1.42		
	Culvert C1	2	5.00			0.60	0.80	4.80		
	Culvert C2	2	4.50			0.60	0.80	4.32		
	C3	2	5.50			0.60	0.80	5.28		
	C4	2	5.60			0.60	1.00	6.72		

CPC 14/2/2019

Assistant Engineer ಸಹಾಯಕ ಅಭಿಯಂತರರು ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

Assistant Executive Engineer ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24 14/2/2019

P.T.O

Sl No.	Description	No.	L	B1	B2	AV. B	D	Qty	Rate / Unit	Amount
	C5	2	6.00			0.60	0.80	5.76		
	C6	2	5.00			0.60	0.80	4.80		
	C7	2	6.00			0.60	1.00	7.20		
	C8	2	5.50			0.60	0.80	5.28		
	C9	2	4.20			0.60	0.80	4.03		
							Total Qty =	**159.78**	4800.00	**766958.00**
6	Providing and constructing load bearing wall with solid concrete blocks of size 400x150x200 mm having block density not lessthan 1800 kg/m3 and having a minimum average compressive strength 4.00 N/mm2 confirming to IS 2185 (Part) : 2005 and constructed with CM 1:4 , as per IS 2572:2005 including cost of all materials, labour charegs, scaffolding, curing complete as per specifications								Sqm	
	N/S High Tension Road	1	30.00				0.40	12.00		
		1	2.30				0.40	0.92		
		1	23.80				0.40	9.52		
		1	26.10				0.60	15.66		
		1	30.00				0.40	12.00		
		1	28.70				0.40	11.48		
		4	30.00				0.40	48.00		
		1	7.10				0.40	2.84		
	S/S	1	25.20				0.40	10.08		
		1	24.70				0.60	14.82		
		1	25.10				0.40	10.04		
		1	24.20				0.40	9.68		
		1	24.30				0.40	9.72		
		1	30.00				0.60	18.00		
		1	22.20				0.60	13.32		
		1	30.00				0.40	12.00		
		1	7.00				0.40	2.80		
							Total Qty =	**212.88**		
							Qty Limited to =	**210.80**	1000.00	**210800.00**
7	Providing flush pointing to square rubble, course or uncoursed stone masonry with cement mortar 1:3, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications								Sqm	
	Road Side Wall									
	N/S High Tension Road	1	30.00				0.45	13.50		
		1	2.30				0.45	1.04		
		1	23.80				0.60	14.28		
		1	26.10				0.60	15.66		
		1	30.00				0.60	18.00		
		1	28.70				0.60	17.22		
		4	30.00				0.45	54.00		
		1	7.10				0.45	3.20		
	S/S	1	25.20				0.60	15.12		
		1	24.70				0.45	11.12		
		1	25.10				0.60	15.06		
		1	24.20				0.45	10.89		
		1	24.30				0.45	10.94		
		1	30.00				0.60	18.00		
		1	22.20				0.60	13.32		
		1	30.00				0.45	13.50		
		1	7.00				0.45	3.15		
	House Side Wall									
	N/S High Tension Road	1	30.00				0.40	12.00		
		1	2.30				0.40	0.92		
		1	23.80				0.40	9.52		
		1	26.10				0.60	15.66		
		1	30.00				0.40	12.00		
		1	28.70				0.40	11.48		
		4	30.00				0.40	48.00		
		1	7.10				0.40	2.84		
	S/S	1	25.20				0.40	10.08		
		1	24.70				0.60	14.82		

Assistant Engineer

Assistant Executive Engineer

Sl No.	Description	No.	L	B1	B2	AV. B	D	Qty	Rate / Unit	Amount
		1	25.10				0.40	10.04		
		1	24.20				0.40	9.68		
		1	24.30				0.40	9.72		
		1	30.00				0.60	18.00		
		1	22.20				0.60	13.32		
		1	30.00				0.40	12.00		
		1	7.00				0.40	2.80		
	Culvert C1	2	5.00				0.80	8.00		
	Culvert C2	2	4.50				0.80	7.20		
	C3	2	5.50				0.80	8.80		
	C4	2	5.60				1.00	11.20		
	C5	2	6.00				0.80	9.60		
	C6	2	5.00				0.80	8.00		
	C7	2	6.00				1.00	12.00		
	C8	2	5.50				0.80	8.80		
	C9	2	4.20				0.80	6.72		
							Total Qty =	**541.18**		
							Qty Limited to =	**325.20**	125.00	**40650.00**
8	Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, ncluding cost of all materials, labour, HOM of machinery, curing complete as per specifications.								Cum	
	Road Side Wall									
	N/S High Tension Road	1	30.00			0.45	0.075	1.01		
		1	2.30			0.45	0.075	0.08		
		1	23.80			0.45	0.075	0.80		
		1	26.10			0.45	0.10	1.17		
		1	30.00			0.45	0.10	1.35		
		1	28.70			0.45	0.10	1.29		
		4	30.00			0.45	0.075	4.05		
		1	7.10			0.45	0.075	0.24		
	S/S	1	25.20			0.45	0.075	0.85		
		1	24.70			0.45	0.075	0.83		
		1	25.10			0.45	0.10	1.13		
		1	24.20			0.45	0.075	0.82		
		1	24.30			0.45	0.10	1.09		
		1	30.00			0.45	0.10	1.35		
		1	22.20			0.45	0.10	1.00		
		1	30.00			0.45	0.075	1.01		
		1	7.00			0.45	0.075	0.24		
	House Side Wall									
	N/S High Tension Road	1	30.00			0.15	0.075	0.34		
		1	2.30			0.15	0.075	0.03		
		1	23.80			0.15	0.075	0.27		
		1	26.10			0.15	0.075	0.29		
		1	30.00			0.15	0.075	0.34		
		1	28.70			0.15	0.075	0.32		
		4	30.00			0.15	0.075	1.35		
		1	7.10			0.15	0.075	0.08		
	S/S	1	25.20			0.15	0.075	0.28		
		1	24.70			0.15	0.075	0.28		
		1	25.10			0.15	0.075	0.28		
		1	24.20			0.15	0.075	0.27		
		1	24.30			0.15	0.075	0.27		
		1	30.00			0.15	0.075	0.34		
		1	22.20			0.15	0.075	0.25		
		1	30.00			0.15	0.075	0.34		
		1	7.00			0.15	0.075	0.08		
	Culvert C1 Vent	1	5.00			0.60	0.10	0.30		
	Culvert C2	1	4.50			0.60	0.10	0.27		
	C3	1	5.50			0.60	0.10	0.33		
	C4	1	5.60			0.60	0.10	0.34		

Assistant Engineer
ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

Assistant Executive Engineer
ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

20/2/2019

P.T.O

No.	Description	No.	L	B1	B2	AV. B	D	Qty	Rate / Unit	Amount
	C5	1	6.00			0.60	0.10	0.36		
	C6	1	5.00			0.60	0.10	0.30		
	C7	1	6.00			0.60	0.10	0.36		
	C8	1	5.50			0.60	0.10	0.33		
	C9	1	4.20			0.60	0.10	0.25		
	Culvert C1 Vent	2	5.00			0.60	0.10	0.60		
	Culvert C2	2	4.50			0.60	0.10	0.54		
	C3	2	5.50			0.60	0.10	0.66		
	C4	2	5.60			0.60	0.10	0.67		
	C5	2	6.00			0.60	0.10	0.72		
	C6	2	5.00			0.60	0.10	0.60		
	C7	2	6.00			0.60	0.10	0.72		
	C8	2	5.50			0.60	0.10	0.66		
	C9	2	4.20			0.60	0.10	0.50		
							Total Qty =	**32.24**	5900.00	**190231.00**
9	Providing and fixing **RCC precast cover slab of 100mm thick** of drain in cment concrete M20 using graded jelly 20 mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides, transportation, loading unloading, etc.,complete as per the direction of engineer in charge								Sqm	
	N/S High Tension Road	1	30.00			0.90		27.00		
		1	2.30			0.90		2.07		
		1	23.80			0.90		21.42		
		1	26.10			0.90		23.49		
		1	30.00			0.90		27.00		
		1	28.70			0.90		25.83		
		4	30.00			0.90		108.00		
		1	7.10			0.90		6.39		
	S/S	1	25.20			0.90		22.68		
		1	24.70			0.90		22.23		
		1	25.10			0.90		22.59		
		1	24.20			0.90		21.78		
		1	24.30			0.90		21.87		
		1	30.00			0.90		27.00		
		1	22.20			0.90		19.98		
		1	30.00			0.90		27.00		
		1	7.00			0.90		6.30		
		368	0.90			0.60		198.72		
							Total Qty =	**631.35**	1900.00	**1199565.00**
10	Providing and fixing RCC precast cover slab of 100mm thick of drain in cment concrete M20 using graded jelly 20 mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides, transportation, loading unloading, etc.,complete as per the direction of engineer in charge								Sqm	
	Culvert C1 Vent	1	5.00			1.50		7.50		
	Culvert C2	1	4.50			1.50		6.75		
	C3	1	5.50			1.50		8.25		
	C4	1	5.60			1.50		8.40		
	C5	1	6.00			1.50		9.00		
	C6	1	5.00			1.50		7.50		
	C7	1	6.00			1.50		9.00		
	C8	1	5.50			1.50		8.25		
	C9	1	4.20			1.50		6.30		
	C9	80	1.50			0.60		72.00		
							Total Qty =	**142.95**		
							Qty Limited to =	**142.95**	5500.00	**786225.00**
									Total	**3787416.00**

Rupees Thirty Seven Lakh(s) Eighty Seven Thousand Four Hundred Sixteen Only

Assistant Engineer

Assistant Executive Engineer

BRUHAT BANGALORE MAHANAGARA PALIKE

MEASUREMENT SHEET

RA 1ST AND FINAL BILL

Name of work: Providing Cement Concrete Roads at Nagawara Colony in Ward No. 06, Byatarayanapura Sub Division.

Estimated Cost : Rs. 30.00 Lakhs

Job Code: 006-18-000029

Head of Account : P-3316 Special Development Works

Name of Agency: Sri M.R Krishna Naik (Shri Lakshmi Infra India PVT LTD), Shimogga.

Work order No: EE/H/AE/WO/206/2018-19 Dated: 04.01.2019.

Measurements Recarded on :

Sl No.	Description	No.	L	B1	B2	AV. B	D	Qty	Rate / Unit	Amount
1	Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications. i) Lime /Cement Concrete. I. By Manual Means :B. Cement Concrete Grade M-15 & M-20. etc complete as per specifications.								Cum	
	1st Cross Kempegowda	1	5.00			4.00	0.15	3.00		
		1	10.00			3.90	0.15	5.85		
	1st Cross Ambedkar Layout	1	6.00			3.00	0.15	2.70		
		1	10.00			3.30	0.15	4.95		
		1	12.00			4.40	0.15	7.92		
		1	8.60			2.50	0.15	3.23		
	2nd Cross 1st Main Road	1	12.30			1.80	0.15	3.32		
		1	7.80			1.20	0.15	1.40		
	3rd Cross, 1st Main Road	1	16.50			1.30	0.15	3.22		
		1	10.00			1.40	0.15	2.10		
		1	5.00			1.60	0.15	1.20		
		1	4.00			1.20	0.15	0.72		
	For Drain Work									
	E/S 1st Cross Kempegowda Road	1	30.00			0.60	0.25	4.50		
		1	22.00			0.60	0.25	3.30		
		1	30.00			0.60	0.25	4.50		
		1	7.00			0.60	0.25	1.05		
		1	12.00			0.60	0.25	1.80		
							Total Qty =	54.76		
							Qty Limited to =	54.44	500.00	27220.00
2	Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications.								Cum	
	W/S 1st Cross Ambedkar Layout	1	30.00			0.60	0.60	10.80		
		1	30.00			0.60	0.45	8.10		
		1	30.00			0.60	0.60	10.80		
		1	30.00			0.60	0.60	10.80		
		1	2.00			0.60	0.45	0.54		
	E/S 1st Cross Ambedkar Layout	1	30.00			0.60	0.60	10.80		
		1	30.00			0.60	0.60	10.80		
		1	30.00			0.60	0.45	8.10		
		1	27.00			0.60	0.60	9.72		
	Sub Cross of 1st Cross	1	30.00			0.60	0.60	10.80		
		1	10.00			0.60	0.50	3.00		
	E/S 1st Cross Kempegowda Road	1	30.00			0.60	0.60	10.80		
		1	22.00			0.60	0.60	7.92		
		1	30.00			0.60	0.45	8.10		
	W/S 1st Cross Ambedkar Layout	1	7.00			0.60	0.60	2.52		

Assistant Engineer

Assistant Executive Engineer

7/11/2019

P.T.O.

Sl No.	Description	No.	L	B1	B2	AV. B	D	Qty	Rate / Unit	Amount
		1	12.00			0.60	0.45	3.24		
							Total Qty =	**126.84**	200.00	**25368.00**
3	Providing and laying in position **plain cement concrete of mix 1:3:6** with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, **in foundation** including cost of all materials, labour, HOM of machinery, curing complete as per specifications.								Cum	
	1st Cross Kempegowda	1	5.00			4.20	0.15	3.15		
		1	10.00			3.90	0.15	5.85		
	1st Cross Ambedkar Layout	1	6.00			3.00	0.15	2.70		
		1	10.00			3.30	0.15	4.95		
		1	12.00			4.40	0.15	7.92		
		1	8.60			2.50	0.15	3.23		
	2nd Cross 1st Main Road	1	12.30			1.80	0.15	3.32		
		1	7.80			1.20	0.15	1.40		
	3rd Cross, 1st Main Road	1	16.50			1.30	0.15	3.22		
		1	10.00			1.40	0.15	2.10		
		1	5.00			1.60	0.15	1.20		
		1	4.00			1.20	0.15	0.72		
	For Drain Work									
	E/S 1st Cross Kempegowda Road	1	30.00			0.80	0.12	2.88		
		1	22.00			0.80	0.12	2.11		
	W/S	1	30.00			0.80	0.12	2.88		
		1	7.00			0.80	0.12	0.67		
		1	12.00			0.80	0.12	1.15		
							Total Qty =	**49.45**		
							Qty Limited to =	**45.74**	5850.00	**267579.00**
4	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, including attached pilasters, buttresses, plinth cills and string courses cost of all materials, labour complete as per specifications								Sqm	
	For Drain Work									
	E/S 1st Cross Kempegowda Road	2	30.00				0.15	9.00		
		2	22.00				0.15	6.60		
	W/S	2	30.00				0.15	9.00		
		2	7.00				0.15	2.10		
		2	12.00				0.15	3.60		
							Total Qty =	**30.30**	270.00	**8181.00**
5	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, including attached pilasters, buttresses, plinth cills and string courses cost of all materials, labour complete as per specifications								Sqm	
	E/S 1st Cross Kempegowda Road	2x2	30.00				0.60	72.00		
		2x2	22.00				0.60	52.80		
	W/S	2x2	30.00				0.60	72.00		
		2x2	7.00				0.60	16.80		
		2x2	12.00				0.60	28.80		
							Total Qty =	**242.40**		
							Qty Limited to =	**232.00**	350.00	**81200.00**
6	Providing and laying cement concrete using 20 mm and down size granite coarse aggregates and fine aggregates of ready mixed concrete (RMC) M 20 for R.C.C works laid in 15 cms thick layers and well compacted vibrating, curing, for raft foundation column footing , main and secondary beams with all lead and lifts etc., complete (exclusive of cost of steel and fabrication charges.) etc complete as per specifications.								Cum	
	Raft									
	E/S 1st Cross Kempegowda Road	1	30.00			0.80	0.15	3.60		
		1	22.00			0.80	0.15	2.64		
	W/S	1	30.00			0.80	0.15	3.60		
		1	7.00			0.80	0.15	0.84		
		1	12.00			0.80	0.15	1.44		
	Side Wall									

Assistant Engineer ಸಹಾಯಕ ಅಭಿಯಂತರರು ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

Assistant Executive Engineer ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

7/11/2019

P.T.O.

Sl No.	Description	No.	L	B1	B2	AV. B	D	Qty	Rate / Unit	Amount
	E/S 1st Cross Kempegowda Road	2	30.00			0.10	0.50	3.00		
		2	22.00			0.10	0.50	2.20		
	W/S	2	30.00			0.10	0.50	3.00		
		2	7.00			0.10	0.50	0.70		
		2	12.00			0.10	0.50	1.20		
							Total Qty =	22.22		
							Total Qty =	20.30	6700.00	136010.00
7	Providing **T.M.T steel reinforcement for R.C.C work** including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. **TMT bars Fe 500**								Tonne	
		Nos	L			M	Kg/m	Kgs		
	10 mm	347	1.75			607.25	0.62	376.50		
	8 mm	12	52.00			624.00	0.39	243.36		
	10 mm	247	1.75			432.25	0.62	268.00		
	8 mm	12	37.00			444.00	0.39	173.16		
	10 mm	80	1.75			140.00	0.62	86.80		
	8 mm	12	12.00			144.00	0.39	56.16		
								1203.97		
							Total Qty =	1.20		
							Qty Limited Tender Qty =	1.12	75000.00	84000.00
8	Providing and fixing **RCC precast cover slab of 100mm thick** of drain in cment concrete M20 using graded jelly 20 mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides, transportation, loading unloading, etc.,complete as per the direction of engineer in charge								Sqm	
	W/S 1st Cross Ambedkar Layout	1	30.00			0.90		27.00		
		1	30.00			0.90		27.00		
		1	30.00			0.90		27.00		
		1	30.00			0.90		27.00		
		1	2.00			0.90		1.80		
	E/S 1st Cross Ambedkar Layout	1	30.00			0.90		27.00		
		1	30.00			0.90		27.00		
		1	30.00			0.90		27.00		
		1	27.00			0.90		24.30		
	Sub Cross of 1st Cross	1	30.00			0.90		27.00		
		1	10.00			0.90		9.00		
	E/S 1st Cross Kempegowda Road	1	30.00			0.90		27.00		
		1	22.00			0.90		19.80		
		1	30.00			0.90		27.00		
	W/S 1st Cross Ambedkar Layout	1	7.00			0.90		6.30		
		1	12.00			0.90		10.80		
		85	1.20			0.60		61.20		
							Total Qty =	403.20	1900.00	766080.00
9	Cement concrete pavement Construction of un-reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base with OPC cement or any other type as per clause 1051.2.2 design mix M20/M30 , with 25mm and down size graded granite metal coarse aggregates and fine aggregtes , with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008 , mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints including groove cutting charges, joint filler, separation membrane, selant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades as per drawing complete as per specifications. - M20 (at 300Kg per cum coarse aggregate @ 0.64cum and fine aggregate @ 0.43cum) etc complete as per specifications								Cum	
	1st Cross Kempegowda Road	1	15.00	4.20	4.20	4.20	0.15	9.45		
		1	15.00	4.20	3.90	4.05	0.15	9.11		
		1	15.00	3.90	3.85	3.88	0.15	8.72		

Assistant Engineer

Assistant Executive Engineer

Sl No.	Description	No.	L	B1	B2	AV. B	D	Qty	Rate / Unit	Amount
		1	7.00	3.85	4.20	4.03	0.15	4.23		
	Sub Cross Road at 1st Cross Kempegowda Road									
		1	15.00	2.70	2.40	2.55	0.15	5.74		
		1	15.00	2.40	2.30	2.35	0.15	5.29		
		1	10.00	2.30	2.40	2.35	0.15	3.53		
	1st Cross Kempegowda Layout	1	15.00	5.40	4.50	4.95	0.15	11.14		
		1	15.00	4.50	5.20	4.85	0.15	10.91		
		1	15.00	5.20	5.20	5.20	0.15	11.70		
		1	15.00	5.20	6.50	5.85	0.15	13.16		
		1	7.80	6.50	6.60	6.55	0.15	7.66		
		1	15.00	5.40	5.10	5.25	0.15	11.81		
		1	15.00	5.10	4.90	5.00	0.15	11.25		
		1	15.00	4.90	5.10	5.00	0.15	11.25		
		1	11.60	5.10	5.40	5.25	0.15	9.14		
	upto Nagawara Main Road	1	15.00	2.70	2.60	2.65	0.15	5.96		
		1	15.00	2.60	2.70	2.65	0.15	5.96		
		1	15.00	2.70	2.50	2.60	0.15	5.85		
		1	2.30	2.50	2.50	2.50	0.15	0.86		
	3rd Cross of 1st Main Road	1	15.00	3.30	2.50	2.90	0.15	6.53		
		1	15.00	2.50	2.50	2.50	0.15	5.63		
		1	15.00	2.50	2.40	2.45	0.15	5.51		
		1	15.00	2.40	2.60	2.50	0.15	5.63		
		1	11.70	2.60	2.70	2.65	0.15	4.65		
		1	10.00	1.60	1.60	1.60	0.15	2.40		
		1	4.30	2.50	2.50	2.50	0.15	1.61		
	Man Holes	1	18.00	3.142 x 0.70 x 0.70			0.15	1.04		
				4						
							Total Qty =	**195.71**		
							Qty Limited to =	**192.72**	7000.00	**1349040.00**
10	Vaccum de-watering with vaccum pump and suction mat and compaction with skin floater clubbed with floating disc including cost of generator, HOM of machinery, Screed Vibratory, Power Floater, blade and disc etc., with all lead and lifts etc complete as per specifications.								Sqm	
	1st Cross Kempegowda Road	1	15.00	4.20	4.20	4.20		63.00		
		1	15.00	4.20	3.90	4.05		60.75		
		1	15.00	3.90	3.85	3.88		58.13		
		1	7.00	3.85	4.20	4.03		28.18		
	Sub Cross Road at 1st Cross Kempegowda Road									
		1	15.00	2.70	2.40	2.55		38.25		
		1	15.00	2.40	2.30	2.35		35.25		
		1	10.00	2.30	2.40	2.35		23.50		
	1st Cross Kempegowda Layout	1	15.00	5.40	4.50	4.95		74.25		
		1	15.00	4.50	5.20	4.85		72.75		
		1	15.00	5.20	5.20	5.20		78.00		
		1	15.00	5.20	6.50	5.85		87.75		
		1	7.80	6.50	6.60	6.55		51.09		
		1	15.00	5.40	5.10	5.25		78.75		
		1	15.00	5.10	4.90	5.00		75.00		
		1	15.00	4.90	5.10	5.00		75.00		
		1	11.60	5.10	5.40	5.25		60.90		
	upto Nagawara Main Road	1	15.00	2.70	2.60	2.65		39.75		
		1	15.00	2.60	2.70	2.65		39.75		
		1	15.00	2.70	2.50	2.60		39.00		
		1	2.30	2.50	2.50	2.50		5.75		
	3rd Cross of 1st Main Road	1	15.00	3.30	2.50	2.90		43.50		
		1	15.00	2.50	2.50	2.50		37.50		
		1	15.00	2.50	2.40	2.45		36.75		
		1	15.00	2.40	2.60	2.50		37.50		
		1	11.70	2.60	2.70	2.65		31.01		
		1	10.00	1.60	1.60	1.60		16.00		
		1	4.30	2.50	2.50	2.50		10.75		
	Man Holes	1	18.00	3.142 x 0.70 x 0.70				6.93		
				4						
							Total Qty =	**1304.73**		

Assistant Engineer
ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

Assistant Executive Engineer
ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

Sl No.	Description	No.	L	B1	B2	AV. B	D	Qty	Rate / Unit	Amount
							Qty Limited to =	1304.72	125.00	163090.00
									Total	2907768.00

Rupees Twenty Nine Lakh(s) Seven Thousand Seven Hundred Sixty Eight Only

Assistant Engineer
Ward No. 06.
22/2/19
ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

Assistant Executive Engineer
Byatarayanapura Sub Division
22/2/2019
ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

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